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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/825,918	04/03/2001	William T. Turner	12017-24/JWE	4546	
75	90 05/05/2004	William T. Turner 2004 LSON & RAUTH 1600	EXAMINER		
STRADLING YOCCA CARLSON & RAUTH			FLETCHER, MARLON T		
IP Department	enter Drive Suite 1600		ART UNIT	PAPER NUMBER	
660 Newport Center Drive, Suite 1600 P.O. Box 7680			2837		
Newport Beach, CA 92660-6441			DATE MAILED: 05/05/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application N .	Applicant(s)		
Office Action Summary		09/825,918	TURNER, WILLIAM T.		
		Examin r	Art Unit		
		Marlon T Fletcher	2837		
The MAILIN Period for Reply	IG DATE of this communication a	appears n the c ver sheet with the	c rrespondence address		
THE MAILING DA  - Extensions of time may after SIX (6) MONTHS  - If the period for reply si  - Failure to reply within the Any reply received by the second	TE OF THIS COMMUNICATION to be available under the provisions of 37 CFR from the mailing date of this communication. Decified above is less than thirty (30) days, a respecified above, the maximum statutory perion set or extended period for reply will, by states.	PLY IS SET TO EXPIRE 3 MONTH N.  1.136(a). In no event, however, may a reply be to reply within the statutory minimum of thirty (30) day od will apply and will expire SIX (6) MONTHS from tute, cause the application to become ABANDON illing date of this communication, even if timely file.	imely filed  sys will be considered timely.  In the mailing date of this communication.  ED (35 U.S.C. § 133).		
Status					
1) Responsive	to communication(s) filed on 23	January 2004.			
<u> </u>	This action is <b>FINAL</b> . 2b) This action is non-final.				
3) Since this a	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in ac	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claim	s				
4) Claim(s) 22-	-24 is/are pending in the applicat	tion.			
	oove claim(s) is/are withd				
5) Claim(s)	is/are allowed.				
6)⊠ Claim(s) <u>22</u> -	<u>·24</u> is/are rejected.				
7) Claim(s)	is/are objected to.				
8) Claim(s)	are subject to restriction and	d/or election requirement.			
Application Papers					
9)☐ The specifica	ation is objected to by the Exami	ner.			
10) The drawing	(s) filed on is/are: a)☐ a	ccepted or b) objected to by the	Examiner.		
Applicant mag	y not request that any objection to th	he drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).		
Replacement	drawing sheet(s) including the corre	ection is required if the drawing(s) is ol	ojected to. See 37 CFR 1.121(d).		
11)☐ The oath or o	declaration is objected to by the	Examiner. Note the attached Office	e Action or form PTO-152.		
Priority under 35 U.S	.C. § 119				
a) All b) 1. Certifi 2. Certifi 3. Copie applic	Some * c) None of: ed copies of the priority docume ed copies of the priority docume s of the certified copies of the pr ation from the International Bure	ents have been received in Applicationity documents have been receive	tion No red in this National Stage		
Attachment(s)					
1) Notice of References		4) Interview Summar			
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08</li> </ul>		· <u> </u>	Pate Patent Application (PTO-152)		
Paper No(s)/Mail Dat	, , ,	6) Other:			

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kinman '999 or Blucher et al in view of Anderson '117.

Each patent discloses an upper and lower coil, and a single, flat non-magnetized ferromagnetic plate 41 disposed between two coils. Regarding claim 23, each patent discloses at least one magnetic pole piece partially with the upper coil and partially within the lower coil and extending through a hole in the ferromagnetic plate 41. Regarding claim 24, at least one magnetic pole piece extends from above the upper coil. Neither Kinman '999 nor Blucher et al. disclose a completely flat ferromagnetic plate.

However, Anderson '117 discloses a pickup having a upper and lower coil (figures 2 and 4), having a completely flat flexible magnet plate (20) disposed between the two coils.

It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the teachings of Anderson with either Kinman'999 or Blucher et al., because Kinman '999 and Blucher et al. provide all of the limitations, except for a completely flat plate. Anderson provides this additional feature for use with a pick up

having an upper and lower coil. Although Anderson does not disclose ferromagnetic material, Anderson discloses magnetic material. Kinman and Blucher et al. provide ferromagnetic material. The ferromagnetic material means that the material is magnetizable. Anderson provides a magnet which means the material is magnetized. It would be obvious to combine the references to provide a completely flat material whether the material be ferromagnetic or magnetic, wherein the flat material provides a separation between the upper and lower coils, and magnetism changes the inductance; thereby, enhancing the invention.

3. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kinman '520 or '966 in view of Anderson.

Each patent to Kinman discloses an upper coil 30, a lower coil 20, and a single non-magnetized ferromagnetic plate 41 disposed between two coils. The plate forms part of metallic shield of magnetically permeable material. The material is mild steel and non-magnetized. Neither reference discloses a completely flat plate.

However, Anderson '117 discloses a pickup having a upper and lower coil (figures 2 and 4), having a completely flat flexible magnet plate (20) disposed between the two coils.

It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the teachings of Anderson with either Kinman '520 or '966, because Kinman '520 and '966 provide all of the limitations, except for a completely flat plate.

Anderson provides this additional feature for use with a pick up having an upper and

lower coil. Although Anderson does not disclose ferromagnetic material, Anderson discloses magnetic material. Kinman and Blucher et al. provide ferromagnetic material. The ferromagnetic material means that the material is magnetizable.

Anderson provides a magnet which means the material is magnetized. It would be obvious to combine the reference to provide a completely flat material whether the material be ferromagnetic or magnetic. It would be obvious to combine the references to provide a completely flat material whether the material be ferromagnetic or magnetic, wherein the flat material provides a separation between the upper and lower coils, and magnetism changes the inductance.

4. Claims 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kinman '999 or Blucher et al in view of Freeman '461.

Each patent discloses an upper and lower coil, and a single, flat non-magnetized ferromagnetic plate 41 disposed between two coils. Regarding claim 23, each patent discloses at least one magnetic pole piece partially with the upper coil and partially within the lower coil and extending through a hole in the ferromagnetic plate 41. Regarding claim 24, at least one magnetic pole piece extends from above the upper coil. Neither Kinman '999 nor Blucher et al. disclose a completely flat ferromagnetic plate.

However, Freeman '117 discloses a pickup having a upper and lower coil (figure 3), having a completely flat flexible magnet plate (20) disposed between the two coils.

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It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the teachings of Freeman with either Kinman'999 or Blucher et al., because Kinman '999 and Blucher et al. provide all of the limitations, except for a completely flat plate. Anderson provides this additional feature for use with a pick up having an upper and lower coil. Freeman discloses a completely flat magnetic material. Kinman and Blucher et al. provide ferromagnetic material. The ferromagnetic material means that the material is magnetizable. Freeman provides a magnet which means the material is magnetized. It would be obvious to provide the claimed invention in view of combination, wherein the combination is merely used to provide the different material for providing the same result.

## Response to Arguments

5. Applicant's arguments filed 01/23/2004 have been fully considered but they are not persuasive.

The examiner has carefully reviewed applicant's argument, and disagrees with the arguments. The examiner believes that the references are combinable and that the teachings meet the claimed limitations. The specification discloses the ferromagnetic plate being sandwiched between plates 19 and 20, wherein the ferromagnetic plate provides separation between the upper and lower coils. It is obvious to make the ferromagnetic material between the coils completely flat, wherein the primary purpose is to provide separation between the upper and lower coils, while being able to create a magnetic field between the two coils. The prior art as discussed above, provides these

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teachings. Because the references all teach an upper and lower coil, including a material (magnetic) providing a separation between the two coils, it is clear that the art is related and the teachings could possibly be combined. The difference in the teachings, is seen in the design of the material. All references provide magnetic transducers or pickups. The effects of providing a flat or non-flat material separating the coils, is an obvious variation, because the teachings are taught in the prior art to provide either a flat or non-flat material, wherein the material is magnetic, which thereby, provides a change in inductance.

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marlon T Fletcher whose telephone number is 571-272-2063. The examiner can normally be reached on M-W, and F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin can be reached on 571-272-2107.

Marion Trietcher Primary Examiner

Art Unit 2837

MTF

May 3, 2004